



REPLACEMENT SHEET

P P Q P S R P A P P P P A P P S 16  
cgccgcccgcagccttctcgcccgccgcccccgccgctgcacccccatct 50  
A L P R G G R A A R A G G P G S R 33  
gctcttcccccgcgggggcgcgcgggcggggctggggggccggggcagccg 100  
A R A A G A R G C R L R S Q L V 49  
cgctcgggcagcgggggcgcggggctgccgctgcgctgcagctgggtgc 150  
P V R A L G L G H R S D E L V R F 66  
cggtgcgcgcgctcgscctggggccaccgctccgacgagctgggtgcgtttc 200  
R F C S G S C R R A R S P H D L S 83  
cgcttctgcagcggtctctgccgcccgcgcgctctccacacgacctcag 250  
L A S L L G A G A L R P P P G S 99  
cctggccagcctactggcgccggggccctgcgaccgcccccgggctccc 300  
R P V S Q P C C R P T R Y E A V S 116  
ggcccgtcagccagccctgctgccgaccacgcgctacgaagcggtctcc 350  
F M D V N S T W R T V D R L S A T 133  
ttcatggagctcaacagcacctggagaaccgtggaccgcctctccgccac 400  
A C G C L G \*SEQ ID NO: 4 139  
cgccctgcggctgcctgggctgagggtcgctccagggctttgcagactgg 450  
acccttaccgggtggcctcttcctgc SEQ ID NO: 2 474

FIG. 1



REPLACEMENT SHEET

hGDNF : SEQ ID NO: 16 \*  
SPDKQMAVLPRRERNRQAAAAANPENSRRGKRRGGRGKNRGGVITAIHNNVTDLGLGYETKEELIFRYCSE : 70  
SEQ ID NO: 19  
hNTN : -----ARLGARPGGLRELEVRUSELGLGYASEETVLFYRCAG : 37  
SEQ ID NO: 22  
hPSP : -----ALSGPCQLWSTLESVAELGLGYASEEKVIFRYCAG : 35  
SEQ ID NO: 25  
hEVN : -----AGGPGRSARAAGARGCRLRSQLVPRALGLGHRSDLELVRFRCSC : 45

\* SEQ ID NO: 17 \*\* SEQ ID NO: 18 \*  
hGDNF : SCDA-ETTYKIKNISRRNRVS---DKVGAACCRPIAFDDDLNFLDNLVYHILRKHSARKCGCI- :134  
SEQ ID NO: 21  
hNTN : ACEA-PARVYDGLRRIRRRRER---EPVRAOPCCRPTAIEDEVSFLLAHSRVHTVHELARECAQV- :102  
SEQ ID NO: 23 SEQ ID NO: 24  
hPSP : SCPRGARTOHGLARLOGQG-----RAHGGPCCRPIRE-TLVAFLLDRHKWQRTPOLSAACGCGG : 96  
SEQ ID NO: 26 SEQ ID NO: 27  
hEVN : SCRR-ARSPHDSLASILGAGARPPPGSRPVSQCCRPTRE-AVSEMLVNSTWRIVDRLSATACGCLG :113

FIG. 2



<b>reading frame A</b>	<b>M P G L I S A</b>	<b>7</b>
gagttttccctccacacagctaggagcccatgcccggcctgatctcagcc		50
<b>R G Q P L L E V L P P Q A H L G A</b>		<b>24</b>
cgaggacagccctccttgaggctccttcccccaagcccacctgggtgc		100
<b>L F L P E A F L G L S A Q P A L</b>		<b>A40</b>
cctctttctccctgaggctccacttgggtctctccgcgagcctgccctgt		150
<b>W P T L A A L A L L S S V A E A S</b>		<b>A57</b>
ggccccacctggcgctcttggtctgctgagcagcgtcgagaggcctcc		200
<b>L G S A P R S P A P R E G P P P V</b>		<b>A74</b>
ctggggtccgcgccccgcagccctgcccccggaaggcccccgctgt		250
<b>L A S P A G H L P G R</b>	<b>* SEQ ID NO: 6</b>	<b>A85</b>
cctggcgctcccccgccggccacctgcccggtaggtgagagggcgaggggg		300
<b>reading frame B</b>	<b>* L G L I P G</b>	<b>B6</b>
cgggggcggggctggccccgggacaccgcgctgactgggtctcattccagg		350
<b>G R T A F W C S G R A R R P P P</b>		<b>B22</b>
gggacgcacggccccgctgggtgcagtgggaagagcccgggcgccgcccgc		400
<b>Q P S R P A P P P P A P P S A L P</b>		<b>B39</b>
agccttctcgggcccg-gcccccgccgctgcacccccatctgctcttccc		450
<b>R G G <u>R A A R</u> A G G P G S R A R A</b>		<b>B56</b>
cgcggggggcgcgcgggcggggctggggggccggggcagccgcgctcgggc		500
<b>A G A R G C R L R S Q L V P V R</b>		<b>B72</b>
agcggggggcgcggggctgcgcctgcgctcgcagctgggtgcgggtgcgcg		550
<b>A L G L G H R S D E L V R F R F C</b>		<b>B89</b>
cgctcggcctggggccaccgctccgacgagctgggtgcgtttccgcttctgc		600
<b>S G S C R R A R S F H D L S L A S</b>		<b>B106</b>
agcgggtcctgcccgcgcgcgctctccacacgacctcagcctggccag		650
<b>L L G A G A L R P P P G S R P V</b>		<b>B122</b>
cctactggggcgccggggccctgcgaccgccccggggtcccggcccgtca		700
<b>S Q P C C R P T R Y E A V S F M D</b>		<b>B139</b>
gccagccctgctgccgaccacgcgctacgaagcgggtctccttcattggac		750
<b>V <u>N S T</u> W R T V D R L S A T A C G</b>		<b>B156</b>
gtcaacagcacctggagaaccgtggaccgcctctccgccaccgcctgcgg		800
<b>C L G</b>	<b>* SEQ ID NO: 7</b>	<b>B159</b>
ctgcctgggctgagggtc	<b>SEQ ID NO: 5</b>	819

FIG. 3



## REPLACEMENT SHEET

1 CTGATGGGCGCTCCTGGTGTGATAGAGATGGAACTTGGACTTGGAGGCCTCTCCACGCT 11  
M E L G L G G L S T L  
S H C P W P R R Q SEQ ID NO: 28  
61 GTCCCACTGCCCCCTGGCCTAGGCGGCAGTGTAGTGGTTCTCCAGTGACTCCTACCTGGT 20  
121 ACTGAGGAAAGGCGGCTTGACTGGTGAGGGAGAGCAGGGCTTGGCTTGGGACGCGGTTAG  
181 GTGTGGGAGGGAAAATGGTCAGGGAGGGACCAGGTGAATGGGAGGAGGAGCGGGACTTCT  
241 CTGAATGGTTCGGTGCACCTCAGGTGATTCTCCCTGGGCTCCAGAGGCAGCAAACCCAT  
301 TATACTGGAACCTAGGCCCTTCTGAGTTTCCCCCTCCACACAGCTAGGAGCCCATGCCCC  
361 GCCTGATCTCAGCCCGAGGACAGCCCTCCTTGAGGTCTTCTCCCAAGCCACCTGG  
3'-1 3'-2  
421 GTGCCCTCTTTCTCCCTGAGGCTCCACTTGGTCTCTCCGCGCAGCCTGCCCTGTGGCCCA 33  
A P L G L S A Q P A L W P  
T L A A L A L L S S V A E A S L G S A P 53  
481 CCCTGGCCGCTCTGGCTCTGCTGAGCAGCGTCGAGAGGCCTCCCTGGGCTCCGSGCCCC  
R S P A P R E G P P P V L A S P A G H L 73  
541 GCAGCCCTGCCCCCGGAAGCCCCCGCCTGTCTGGCGTCCCCCGCCGCCACCTGC  
P SEQ ID NO: 29  
601 CGGGTAGGTGAGAGGGCGAGGGGGCGGGGCGGGGCTGGCCCGGACACCGCGCGTGACTG 74  
3'-3  
661 GGTCTCATTCACAGGGGACGCACGGCCCGCTGGTGCAGTGAAGAGCCCGGCGGCCCGCG  
G G R T A R W C S G R A R R P P 90  
P Q P S R P A P P P P A P P S A L P R G 110  
721 CCGCAGCCTTCTCGGCCCGCGCCCCCGCGCCTGCACCCCATCTGCTCTTCCCCGCGGG  
G R A A R mature enovin A G G P G S R A R A A G A R G 130  
781 GGCCGCGCGGCGCGGGCTGGGGGCCCCGGGCAGCCGCGCTCGGGCAGCGGGGGCGCGGGG  
C R L R S Q L V P V R A L G L G H R S D 150  
841 TGCCGCTGCGCTCGCAGCTGGTGCCGGTGC GCGCGCTCGGCCTGGGCCACCGCTCCGAC  
E L V R F R F C S G S C R R A R S P H D 170  
901 GAGCTGGTGC GTTCTCGCTTCTGCAGCGGCTCTGCCGCGCGCGCTCTCCACACGAC  
L S L A S L L G A G A L R P P P G S R P 190  
961 CTCAGCCTGGCCAGCCTACTGGGCGCGGGGCCCTGCGACCGCCCCGGGCTCCCGGCC  
V S Q P C C R P T R Y E A V S F M D V N 210  
1021 GTCAGCCAGCCCTGCTGCCGACCCACGCGCTACGAAGCGGTCTCTTCATGGACGTCAAC  
S T W R T V D R L S A T A C G C L G \* SEQ ID NO: 30 228  
1081 AGCACCTGGAGAACCGTGGACCGCCTCTCCGCCACCGCCTGCGGCTGCCTGGGCTGAGGG  
1141 CTCGCTCCAGGGCTTTGCAGACTGGACCCTTACCGGTGGCTCTTCTTG SEQ ID NO: 8

FIG. 21



REPLACEMENT SHEET

1 MELGLGGLST LSHCPWPRRQ APLGLSAQPA LWPTLAALAL LSSVAEASLG  
51 SAPRSPAPRE GPPFVLASPA GHLPGGRTAR WCSGRARRPP PQPSRPAPPP  
101 PAPPSALPRG GRAARAGGPG SRARAAGARG CRLRSQVLPV RALGLGHRSD  
151 ELVRFRFCSG SCRRARSPHD LSLASLLGAG ALRPPPGSRP VSQPCCRPT  
201 YEAVSFMDVN STWRTVDRLS ATACGCLG SEQ ID NO: 9

**FIG. 23**



REPLACEMENT SHEET

1 MELGLGGLST LSHCPWPRRQ PALWPTLAAL ALLSSVAEAS LGSAPRSPAP  
51 REGPPFVLAS PAGHLPGGRT ARWCSGRARR PPPQPSRPAP PPPAPPSALP  
101 RGGRAARAGG PGSRARAAGA RGCRLRSQLV PVRALGLGHR SDELVRFRFC  
151 SGSCRRARSP HDLSLASLLG AGALRPPPGS RPVSQPCCRP TRYEAVSFMD  
201 VNSTWRTVDR LSATACGCLG SEQ ID NO: 10

**FIG. 24**